

Listing of the Claims:

Claim 1 (Currently Amended): An internal broaching machine comprising:

a broach having a front shank or pull end and a rear shank or follower end, ~~at least one of~~ said pull end ~~and said follower end~~ being formed with a tapered surface and having engagement grooves formed on opposite sides of the pull end;

a pull head and a retrieving head for respectively gripping said pull end and said follower end, ~~at least one of~~ said pull head ~~and said retrieving head~~ being formed with a tapered inner surface complementary to said tapered surface of said ~~one of~~ the pull end ~~and the follower end; and~~

a means for firmly connecting the broach between the pull and retrieving heads and the broach together by pressing and clamping with the tapered surface of the broach pressed against the tapered inner surface of at least one head and firmly connecting the broach with the pull and retrieving heads head; and

a pull mechanism for pulling the broach toward the pull head, said pull mechanism comprising a pair of radially oriented holes oppositely formed in the pull head, claw members slidably received in the holes respectively, and a sleeve slidably mounted on the pull head and having inward projecting portions for engaging and pushing the claw members, so that when the sleeve is moved, the projecting portion of the sleeve thrusts the claw members against the tapered surfaces of the pull end engagement grooves to pull the broach toward the pull head.

Claims 2-5 (Canceled).

Claim 6 (Currently Amended): An internal broaching machine according to claim 1,
comprising:

a broach having a front shank or pull end and a rear shank or follower end, at least one of said pull end and said follower end being formed with a tapered surface;
a pull head and a retrieving head for respectively gripping said pull end and said follower end, at least one of said pull head and said retrieving head being formed with a tapered inner surface complementary to said tapered surface of said one of the pull end and the follower end; and

means for connecting the broach between the pull and retrieving heads with the tapered surface of the broach pressed against the tapered inner surface of at least one head and firmly connecting the broach with the pull and retrieving heads wherein said broach is formed with a pair of parallel flat faces on opposite sides of the pull end and said pull head further comprises a rotary direction positioning mechanism which comprises a pair of parallel flat faces formed on opposite sides of one of the ends of the broach, a pair of parallel holes radially formed in the pull head, pins slidably received in the holes respectively, and a sleeve slidably mounted on the pull head and having an inward projecting portion for engaging and pushing the pins, so that when the sleeve is moved, the projecting portion of the sleeve thrusts the pins against two ends symmetric with respect to a point of the parallel flat faces of the broach to rotate the broach from opposite directions and thereby clamp the broach with the pull head.

Claim 7 (Currently Amended): An internal broaching machine according to claim 3 9,
wherein said push device comprises a drive cylinder mounted on the slide table and a

movable block movably mounted on the slide table, drivingly connected to the cylinder and adapted to support the retrieving head.

Claim 8 (Canceled).

Claim 9 (New). An internal broaching machine according to claim 1, further comprising a slide table for supporting said retrieving head, wherein said following end of the broach has a tapered surface formed thereon, said retrieving head also having a tapered inner surface complementary to said tapered surface of the retrieving end of the broach, and said means for clamping the broach comprises a push device provided on said slide table and adapted to press the retrieving head against the broach.